



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/966,692	09/28/2001	Tsutomu Yamada	YKI-0078	4078

23413 7590 07/28/2006

CANTOR COLBURN, LLP  
55 GRIFFIN ROAD SOUTH  
BLOOMFIELD, CT 06002

EXAMINER

MULPURI, SAVITRI

ART UNIT	PAPER NUMBER
----------	--------------

2812

DATE MAILED: 07/28/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	
	09/966,692	YAMADA ET AL.	
	Examiner	Art Unit	
	Savitri Mulpuri	2812	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE \_\_\_\_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

- 1) ☒ Responsive to communication(s) filed on 3/30/3005.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

- 4) ☒ Claim(s) 7, 19-24, 30, 32 and 34-71 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 19-24, 30, 34, 44-51, 54, 56, 59, 60, 64, 65, 67, 69 and 70 is/are allowed.
- 6) ☒ Claim(s) 7, 32, 35-43, 52-53, 55, 57, 58, 61-63, 66, 68 and 71 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input checked="" type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. ____   |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>12/23/2004</u>  | 6) <input type="checkbox"/> Other: ____                                     |

### DETAILED ACTION

This action is in response to the applicant's communications, translation of foreign priority document, filed 4/27/2006.

This action is in response to the applicant's communication filed on 11/9/2005..

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 7, 32, 35-43, 52-53, 55, 57, 58, 62-63, 68, 71 are rejected under 35 U.S.C. 103(a) as being unpatentable over by Ikuko et al (6,255,775) in combination with Fukuda (US 6,541,130).

Ikuko et al discloses a method of forming a color emissive device including, on a substrate, a self-emissive element having a first electrode, an emissive material layer for each color and a second electrode, for each plurality of pixels and said method comprising the steps of :

disposing between the substrate and layer material source, a mask including an opening corresponding to one or more of the plurality region where said layer is formed;

causing a material from the layer material source to attach to a first region of the substrate through the opening, while relative positions of the substrate, the mask, the material source are set to a final positional relationship;

causing relative movement between the mask, material source and the substrate the substrate to change relative positions of the substrate, the mask and the source material; from the first positional relationship to the second positional relationship;

causing the material to attach to a second region of the substrate through the opening, while relative positions of the substrate, the mask, and the source material are set to second positional relationship (see fig. 9 a-9d and related description ant).

Ikuko et al further discloses linearly extending source "11, 12, 13" plurality of material sources, elongated in a direction perpendicular to a direction of the relative movement between the mask, material source and the substrate. Ikuko et al teaches electroluminescent materials deposited on the substrate "5,6,7" (see fig. 3 and related description). With respect to claims 11, 33, Ikuko et al further teach emissive material layer for each color for each plurality of pixels.

Ikuko et al teaches a mask "9" having one or more holes and having smaller are than the substrate "1 (see fig.1 or fig. 5 a-5c).

Ikukuo et al do not teach the same material in first positional relationship and second positional relationship by changing the elative positions of the material source and mask and substrate.

Fukuda teaches sliding the mask and depositing an organic material by changing the mask laterally (see Fig. 10- Fig. 12 and related description). It would have been obvious to one of ordinary skill in the art to form organic material by changing the position of the mask laterally because Fukuda teaches

Art Unit: 2812

on organic material on individual devices sequentially by laterally changing the mask to form display.

Claims 19-24, 30,34,,44-50, 51, 54,56,59,60, 61,64,65,66, 67,69 and 70-71 are allowed.

### ***Response to Arguments***

Applicant's arguments with respect to claims 7, 32, 35-43,51-53,55,57,58,62-63, 68 have been considered but are moot in view of the new ground(s) of rejection.

In IDS filed on 11/2004 Korean application no. 10-2001-0059939 is cited.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Savitri Mulpuri whose telephone number is 571-272-1677. The examiner can normally be reached on Mon-Fri from 8 a.m. to 4.30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt, can be reached on 571-272-1873. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

Art Unit: 2812

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, appearing to read 'Savitri Mulpuri', with a stylized flourish at the end.

Savitri Mulpuri  
Primary Examiner  
Art Unit 2812